

WHAT IS CLAIMED IS:

1. A method for high speed rerouting in a multi protocol label switching (MPLS) network, the method comprising the steps of controlling a traffic stream to
5 flow in a reverse direction in a point where a node or link failure occurs by using a backup Label Switched Path (LSP) comprising an Explicitly Routed (ER) LSP having a reverse tree of a protected multi point to point LSP and an ingress LSR through an egress LSR.

10 2. A method for high speed rerouting in a multi protocol label switching (MPLS) network, comprising the steps of:

setting a backup Label Switched Path (LSP) comprising a point to multi
point reverse anycast tree reaching an ingress Label Switching Router (LSR) with
an egress LSR of a multi point to point LSP performing as a root; and

15 transferring, at a LSR sensed a failure, a traffic stream through the reverse
anycast tree by loop-backing the traffic stream in a reverse direction, when the
failure occurs in one link in the MPLS network.

3. The method of claim 2, the traffic stream transferring step comprising
20 the step of transferring a loop-backed packet based on a priority predetermined in
each link, when the loop-backed packet reaches to a merging LSR of an upstream
having a plurality of links.

4. The method of claim 2, the traffic stream transferring step comprising
25 the steps of:

